

Mouse anti-Human, mouse PTPN11 Monoclonal Antibody | anti-PTPN11 antibody

PTPN11 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283508	Mouse	Human, mouse	ELISA, Western Blot

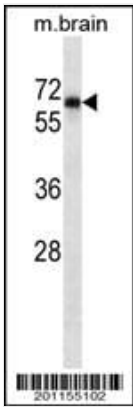
PRODUCT SYNONYMS

PTPN11; Monoclonal Antibody; PTPN11 Antibody; Tyrosine-protein phosphatase non-receptor type 11; Protein-tyrosine phosphatase 1D; PTP-1D; Protein-tyrosine phosphatase 2C; PTP-2C; SH-PTP2; SHP-2; Shp2; SH-PTP3; PTP2C; SHPTP2; anti-PTPN11 antibody

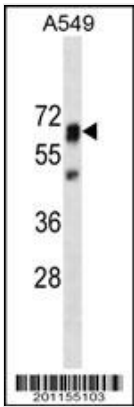
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, mouse
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	246CT9.8.2
Specificity	This PTPN11 monoclonal antibody is generated from mouse immunized with PTPN11 recombinant protein.
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	593
Applicable Applications for anti-PTPN11 antibody	ELISA, WB (Western Blot)
Calculated MW	68436
Function	Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. Dephosphorylates ROCK2 at Tyr-722 resulting in stimulation of its RhoA binding activity. Dephosphorylates CDC73 (PubMed:26742426).
Tissue location	Widely expressed, with highest levels in heart, brain, and skeletal muscle.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20° C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
PTPN11 Antibody western blot analysis in mouse brain tissue lysates (35ug/lane). This demonstrates the PTPN11 antibody detected the PTPN11 protein (arrow).



WB (Western Blot)
PTPN11 Antibody western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the PTPN11 antibody detected the PTPN11 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-PTPN11 antibody	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia.
Product Categories/Family for anti-PTPN11 antibody	Neuroscience; Signal Transduction
References	Yang, X., et al. Mol. Cell. Biol. 30(22):5306-5317(2010) Kikkawa, N., et al. Br. J. Cancer 103(6):877-884(2010) Meng, S., et al. J Mol Cell Biol 2(4):223-230(2010) Demir, K., et al. Turk. J. Pediatr. 52(3):321-324(2010) Tang, C., et al. Zhongguo Fei Ai Za Zhi 13(2):98-101(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	33356177
NCBI GeneID	5781
NCBI Accession #	NP_002825.3; NP_542168.1
NCBI GenBank Nucleotide #	NM_002834.3
UniProt Accession #	Q06124; Q96HD7; A8K1D9
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 11 isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 11
NCBI Official Symbol	PTPN11
NCBI Official Synonym Symbols	CFC; NS1; SHP2; BPTP3; PTP2C; PTP-1D; SH-PTP2; SH-PTP3

NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 11
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 11
UniProt Gene Name	PTPN11
UniProt Synonym Gene Names	PTP2C; SHPTP2; PTP-1D; PTP-2C; SHP-2; Shp2
UniProt Entry Name	PTN11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/ptpn11-antibody-clone-246ct9-8-2-western-blot-elisa/283508>